RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _/0/575,364_

Source: _IFwP_

Date Processed by STIC: _4/25/06_

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/575,364_   CRF Edit Date: _4/25/06_
                                      Edited by: _Ac_

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

_✓_ Deleted: _✓_ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

____ Moved responses to same line as heading/numeric identifier, specifically:

_____

____ Other:
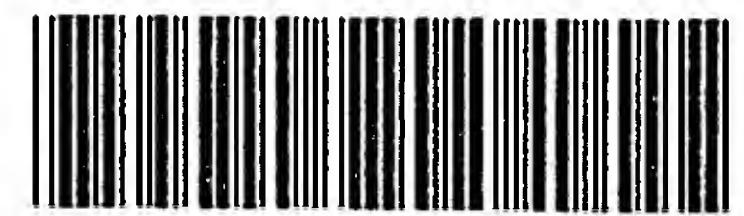
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        RAW SEQUENCE LISTING                    DATE: 04/25/2006
        PATENT APPLICATION:  US/10/575,364      TIME: 15:49:17

        Input Set : A:\PTO.AMC.txt
        Output Set: N:\CRF4\04252006\J575364.raw

    3  <110>  APPLICANT: Bayer HealthCare AG
    5  <120>  TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated
    6          with Arginyl Aminopeptidase (Aminopeptidase B)-Like 1
    7          (RNPEPL1)
    9  <130>  FILE REFERENCE: BHC 03 01 005
C--> 11  <140>  CURRENT APPLICATION NUMBER: US/10/575,364
C--> 11  <141>  CURRENT FILING DATE: 2006-04-11
   11  <160>  NUMBER OF SEQ ID NOS: 5
   13  <170>  SOFTWARE: PatentIn version 3.1
   15  <210>  SEQ ID NO: 1
   16  <211>  LENGTH: 1981
   17  <212>  TYPE: DNA
   18  <213>  ORGANISM: Homo sapiens
   20  <400>  SEQUENCE: 1
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   22  acgccacgtg ggaagagatg tggctgagcg agggcctggc cacctatgcc cagcgccgta   120
   23  tcaccaccga aacctacggt gctgccttca cctgcctgga gactgccttc cgcctggacg   180
   24  ccctgcaccg gcagatgaag cttctgggag aggacagccc ggtcagcaaa ctgcaggtca   240
   25  agctggagcc aggagtgaat cccagccacc tgatgaacct gttcacctac gagaagggct   300
   26  actgcttcgt gtactacctg tcccagctct gcggagaccc acagcgcttt gatgactttc   360
   27  tccgagccta tgtggagaag tacaagttca ccagcgtggt ggcccaggac ctgctggact   420
   28  ccttcctgag cttcttcccg gagctgaagg agcagagcgt ggactgccgg gcagggctgg   480
   29  aattcgagcg ctggctcaat gccacaggcc cgccgctggc tgagccggac ctgtctcagg   540
   30  gatccagcct gacccggccc gtggaggccc ttttccagct gtggaccgca gaacctctgg   600
   31  accaggcagc tgcctcggcc agcgccattg acatctccaa gtggaggacc ttccagacag   660
   32  cactcttcct ggaccggctc ctggatgggt ccccgctgcc gcaggaggtg gtgatgagcc   720
   33  tgtccaagtg ctactcctcc ctgctggact cgatgaacgc tgagatccgc atccgctggc   780
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   35  agagccagat gtcacgcatg tacaccatcc cgctgtacga ggacctctgc accggtgccc   900
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   37  gcagagccat ccagcagatc ctgtcccagg gcctgggctc cagcacagag cccgcctcag  1020
   38  agcccagcac ggagctgggc aaggctgaag cagacacaga ctcggacgca caggccctgc  1080
   39  tgcttgggga cgaggccccc agcagtgcca tctctctcag ggacgtcaat gtgtctgcct  1140
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   41  caggcctgcc atgactgcgt ctcggctctg gccatgagct ctgcccaggc ccacaagccc  1260
   42  ctcccctggg ctctcccagg cagggagaat ggggagaggg acctccttgt gtctggcaga  1320
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   46  tgccttaatg tctgccgggg gcccaggctg tgctgtccct gcagcacgcc tccttgcagg  1560
   47  gatctgagcc accctccccg cacagccctg caccccgccc ctggggttgg cagcctcagt  1620
   48  tggcccctgg cagaggaaca aggacacaga cattccctca gtgtgggggg caggggacac  1680
   49  agggagagga tggttgtccc tggggagggc cctctggccc caggcaacct tagcccctca  1740
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RAW SEQUENCE LISTING   DATE: 04/25/2006
PATENT APPLICATION: US/10/575,364   TIME: 15:49:17

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\04252006\J575364.raw**

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50 gaacagggag tcccaggacc cagggagagt gtggggacag gacagcctgt ctcttgtagc   1800
51 ttcctggggt gggaggcaca ggggcaaagc aataccccag ggaaagtggg aggtggtgct   1860
52 ggtgctctct ccaggcccac catgctggga gaggcggcca gagcctgggg cctccagcct   1920
53 gggactgctg tgatggggta tcacggtgat ggtcccatta aacttccact ctgcaaacct   1980
54 g                                                                    1981
56 <210> SEQ ID NO: 2
57 <211> LENGTH: 354
58 <212> TYPE: PRT
59 <213> ORGANISM: Homo sapiens
61 <400> SEQUENCE: 2
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64 Thr Glu Thr Tyr Gly Ala Ala Phe Thr Cys Leu Glu Thr Ala Phe Arg
65             20                  25                  30
66 Leu Asp Ala Leu His Arg Gln Met Lys Leu Leu Gly Glu Asp Ser Pro
67         35                  40                  45
68 Val Ser Lys Leu Gln Val Lys Leu Glu Pro Gly Val Asn Pro Ser His
69     50                  55                  60
70 Leu Met Asn Leu Phe Thr Tyr Glu Lys Gly Tyr Cys Phe Val Tyr Tyr
71 65                  70                  75                  80
72 Leu Ser Gln Leu Cys Gly Asp Pro Gln Arg Phe Asp Asp Phe Leu Arg
73             85                  90                  95
74 Ala Tyr Val Glu Lys Tyr Lys Phe Thr Ser Val Val Ala Gln Asp Leu
75             100                 105                 110
76 Leu Asp Ser Phe Leu Ser Phe Phe Pro Glu Leu Lys Glu Gln Ser Val
77         115                 120                 125
78 Asp Cys Arg Ala Gly Leu Glu Phe Glu Arg Trp Leu Asn Ala Thr Gly
79  · 130                 135                 140
80 Pro Pro Leu Ala Glu Pro Asp Leu Ser Gln Gly Ser Ser Leu Thr Arg
81 145                 150                 155                 160
82 Pro Val Glu Ala Leu Phe Gln Leu Trp Thr Ala Glu Pro Leu Asp Gln
83             165                 170                 175
84 Ala Ala Ala Ser Ala Ser Ala Ile Asp Ile Ser Lys Trp Arg Thr Phe
85             180                 185         ·       190
86 Gln Thr Ala Leu Phe Leu Asp Arg Leu Leu Asp Gly Ser Pro Leu Pro
87         195                 200                 205
88 Gln Glu Val Val Met Ser Leu Ser Lys Cys Tyr Ser Ser Leu Leu Asp
89     210                 215                 220
90 Ser Met Asn Ala Glu Ile Arg Ile Arg Trp Leu Gln Ile Glu Val Arg
91 225                 230                 235                 240
92 Asn Asp Tyr Tyr Pro Asp Leu His Arg Val Arg Arg Phe Leu Glu Ser
93             245                 250                 255
94 Gln Met Ser Arg Met Tyr Thr Ile Pro Leu Tyr Glu Asp Leu Cys Thr
95             260                 265                 270
96 Gly Ala Leu Lys Ser Phe Ala Leu Glu Val Phe Tyr Gln Thr Gln Gly
97         275                 280                 285
98 Arg Leu His Pro Asn Leu Arg Arg Ala Ile Gln Gln Ile Leu Ser Gln
99     290                 295                 300
100 Gly Leu Gly Ser Ser Thr Glu Pro Ala Ser Glu Pro Ser Thr Glu Leu
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RAW SEQUENCE LISTING   DATE: 04/25/2006
PATENT APPLICATION: US/10/575,364   TIME: 15:49:17

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\04252006\J575364.raw**

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101 305                    310              315              320
102 Gly Lys Ala Glu Ala Asp Thr Asp Ser Asp Ala Gln Ala Leu Leu Leu
103             325              330              335
104 Gly Asp Glu Ala Pro Ser Ser Ala Ile Ser Leu Arg Asp Val Asn Val
105             340              345              350
106 Ser Ala
109 <210> SEQ ID NO: 3
110 <211> LENGTH: 22
111 <212> TYPE: DNA
112 <213> ORGANISM: artificial sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: forward primer
117 <400> SEQUENCE: 3
118 ggtccgcaac gactactatc ct                               22
120 <210> SEQ ID NO: 4
121 <211> LENGTH: 22
122 <212> TYPE: DNA
123 <213> ORGANISM: artificial sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: reverse primer
128 <400> SEQUENCE: 4
129 tggtgtacat gcgtgacatc tg                               22
131 <210> SEQ ID NO: 5
132 <211> LENGTH: 21
133 <212> TYPE: DNA
134 <213> ORGANISM: artificial sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: probe
139 <400> SEQUENCE: 5
140 ctccacaggg tgcggcgctt c                                21
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VERIFICATION SUMMARY   DATE: 04/25/2006
PATENT APPLICATION: **US/10/575,364**   TIME: 15:49:18

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\04252006\J575364.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing
(for reference only)
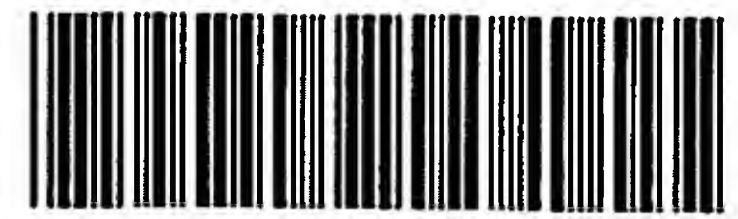
IFWP

RAW SEQUENCE LISTING   DATE: 04/24/2006
PATENT APPLICATION: US/10/575,364   TIME: 16:26:09

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\04242006\J575364.raw**

     3 <110> APPLICANT: Bayer HealthCare AG
     5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with
Arginyl
     6   Aminopeptidase (Aminopeptidase B)-Like 1 (RNPEPL1)
     8 <130> FILE REFERENCE: BHC 03 01 005
C--> 10 <140> **CURRENT APPLICATION NUMBER: US/10/575,364**
C--> 10 <141> **CURRENT FILING DATE: 2006-04-11**
    10 <160> NUMBER OF SEQ ID NOS: 5
    12 <170> SOFTWARE: PatentIn version 3.1

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

   130 <210> SEQ ID NO: 5
   131 <211> LENGTH: 21
   132 <212> TYPE: DNA
   133 <213> ORGANISM: artificial sequence
   135 <220> FEATURE:
   136 <223> OTHER INFORMATION: probe
   138 <400> SEQUENCE: 5
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E--> 143 - 4 -
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E--> 148 - 1 -

VERIFICATION SUMMARY   DATE: 04/24/2006
PATENT APPLICATION: **US/10/575,364**   TIME: 16:26:10

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\04242006\J575364.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:141 M:254 E: No. of Bases conflict, LENGTH:Input:3 Counted:24 SEQ:5
L:141 M:112 C: (48) String data converted to lower case,
M:254 Repeated in SeqNo=5
M:112 Repeated in SeqNo=5
L:148 M:252 E: No. of Seq. differs, <211> LENGTH:Input:21 Found:27 SEQ:5